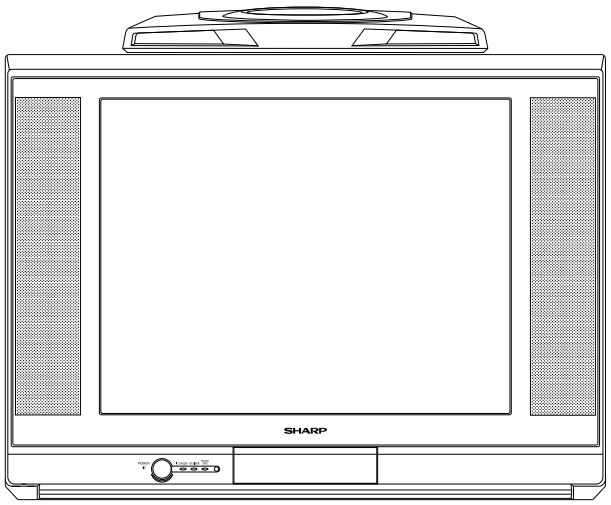
SHARP SERVICE MANUAL



COLOUR TELEVISION

Chassis No. GB-4

MODEL **29F-PA730**
29F-PA730I

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

FEATURES

- World Multi 28 System
- 100-CH Program Memory
- AV Mode (Standard/Dynamic/Soft)
- CATV Hyper Band Ready
- 4Line Digital Comb Filter
- Velocity Modulation
- Blue/Black Stretch Circuit
- Picture Noise Reduction
- White Temp. Select
- Aperture Control
- Gamma correction
- Multi Language OSD (English/Thai)
- On/Off/Reminder Timer (with beep sound)
- Woofer Box
- Rear AV-IN 1 & 2, S-Video In, AV Output (Monitor Out), Headphone and Front AV-IN 3
- NICAM/A2
- AFT
- Component Input Terminal
- BBE & SRS 3D
- Child Lock
- Graphic Equalizer
- Clock
- Sound Mode (Music/Movie/News/Custom)
- Hotel mode
- 16 : 9 Mode

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WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis. To prevent electric shock, do not remove cover. No user - serviceable parts inside. Refer servicing to qualified service personnel.

SHARP MENUFACTURING (THAILAND) CO.,LTD.

Ref. No.	Part No.	Description
R4380	VRD-RA2BE104J*	100k 1/8W Carbon
R4381	VRD-RA2BE104J*	100k 1/8W Carbon
⚠ R4701	VRC-UA2HG275K*	2.7M 1/2W Solid
R4702	RH-HXA014WJZZ+	Thermistor
⚠ R4703	VRW-KP3HC330J	33 5W Cement
R4912	VRD-RA2BE103J*	10k 1/8W Carbon
R4914	VRD-RA2BE103J*	10k 1/8W Carbon
R4921	VRD-RA2BE750J*	75 1/8W Carbon
R4923	VRD-RA2BE750J*	75 1/8W Carbon

SWITCHES

S4001	QSW-K0079GEZZ+	Switch, MENU
S4002	QSW-K0079GEZZ+	Switch, VOL UP
S4003	QSW-K0079GEZZ+	Switch, CH DOWN
S4004	QSW-K0079GEZZ+	Switch, CH UP
S4005	QSW-K0079GEZZ+	Switch, VOL UP
⚠ S4701	QSW-P0612CEZZ	Switch, POWER

MISCELLANEOUS PARTS

FB4701	RBLN-0094GEZZ*	Ferrite Bead
⚠ FB4702	RBLN-0094GEZZ*	Ferrite Bead
⚠ FH4701	QFSHD1013CEZZ+	Fuse Holder
⚠ FH4702	QFSHD1014CEZZ+	Fuse Holder
⚠ F4701	QFS-CA003WJZZ	Fuse, 5A,250V
J4301	QJAKJ0101SEZZ	Jack, Headphone 7pin
J4901	QJAKG0023WJZZ	Jack, 8pin
J4902	QSOCDA023WJZZ	Socket, 6pin S-VIDEO
P4001	QPLGN0678GEZZ	Plug, 6pin (CA)
P4002	QPLGN0461CEZZ	Plug, 4pin (CB)
P4003	QPLGN0761CEZZ	Plug, 7pin (CC)
P4004	QPLGN0778GEZZ	Plug, 7pin (CD)
⚠ P4701	QPLGN0269GEZZ	Plug, 2pin
P4702	QPLGN0269GEZZ	Plug, 2pin (AC)
RMC4001	RRMCUA024WJZZ	Remote Receiver

ACCESSORIES PARTS

⚠ ACC4701	QACCZA019WJPZ	AC Cord (29F-PA730I)
	QACCZA009WJZZ	AC Cord (29F-PA730)
	TINS-B908WJZZ	Operation Manual
	RRMCGA376WJSA	Remote Control Unit

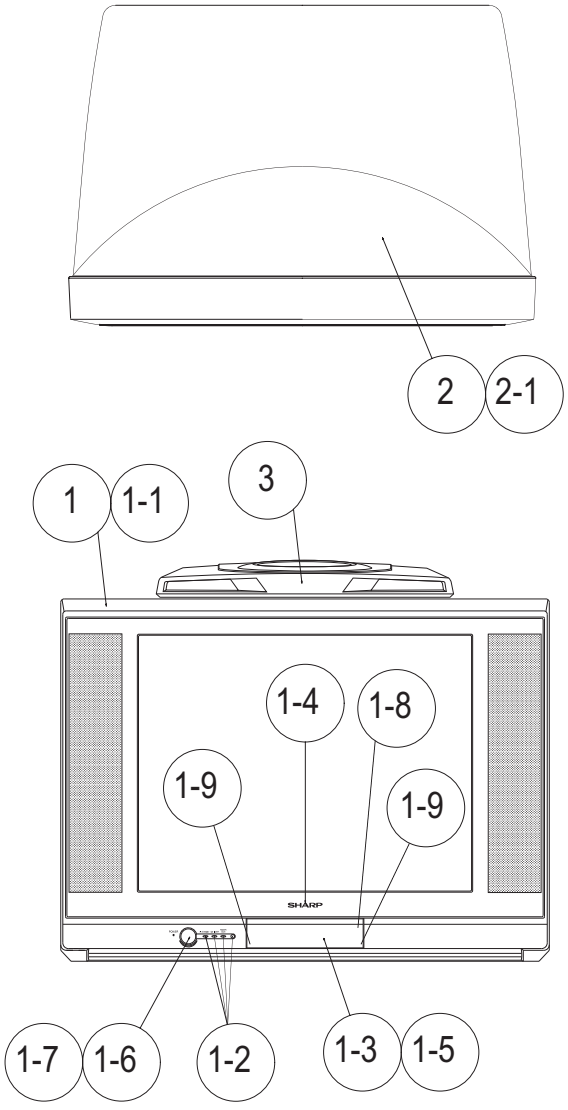
PACKING PARTS
(NOT REPLACEMENT ITEM)

SPAKCB695WJZZ	Packing Case
SPAKP0003KJZZ	Polyethylene Sheet
SSAKA0230CEZZ	Wrapping Sack

Ref. No.	Part No.	Description

CABINET PARTS

1	CCABAB038WEA0	Front Cabinet Ass'y (29F-PA730I)
	CCABAA740WEA0	Front Cabinet Ass'y (29F-PA730)
1-1	*Not Available*	Front Cabinet
1-2	HDECQ0400PJ0T	LED / Remote Control Cover
1-3	GDORFA128WJSA	Door
1-4	HBDGB0203PJSA	Badge, "SHARP"
1-5	HINDPB186WJSA	Indicator Plate
1-6	JBTN-A396WJSA	POWER Button
1-7	MSPRC0005PEFW	Spring for Button
1-8	MSPRPA012WJFW	Spring for Door
1-9	PSPAGA130WJZZ	Door Spacer, x2
2	CCABBA467WEA0	Rear Cabinet Ass'y
2-1	*Not Available*	Rear Cabinet
3	CBOXSA014WEA1	Wooffer Box



Ref. No.	Part No.	Description

RESISTORS

	R851	VRD-RM2HD101J*	100	1/2W	Carbon
	R852	VRD-RM2HD101J*	100	1/2W	Carbon
	R853	VRD-RM2HD101J*	100	1/2W	Carbon
	R854	VRC-MA2HG152K*	1.5k	1/2W	Solid
	R855	VRC-MA2HG152K*	1.5k	1/2W	Solid
	R856	VRC-MA2HG152K*	1.5k	1/2W	Solid
	R858	VRS-SV2HC100J	10	1/2W	Metal Oxide
	R861	VRD-RM2HD224J*	220k	1/2W	Carbon
	R863	VRD-RA2BE221J*	220	1/8W	Carbon
	R864	VRD-RA2BE221J*	220	1/8W	Carbon
	R865	VRD-RA2BE221J*	220	1/8W	Carbon
	R1503	VRD-RA2BE222J*	2.2k	1/8W	Carbon
	R1504	VRD-RA2BE100J*	10	1/8W	Carbon
	R1506	VRD-RA2BE820J*	82	1/8W	Carbon
	R1507	VRD-RA2BE820J*	82	1/8W	Carbon
	R1509	VRD-RA2BE122J*	1.2k	1/8W	Carbon
	R1510	VRD-RA2BE683J*	68k	1/8W	Carbon
	R1511	VRD-RA2BE683J*	68k	1/8W	Carbon
	R1512	VRD-RA2BE122J*	1.2k	1/8W	Carbon
	R1513	VRD-RA2BE123J*	12k	1/8W	Carbon
⚠	R1514	VRS-VV3DB221J	220	2W	Metal Oxide
	R1515	VRD-RA2EE560J*	56	1/4W	Carbon
	R1516	VRD-RA2EE560J*	56	1/4W	Carbon
	R1517	VRD-RA2EE1R5J*	1.5	1/4W	Carbon
	R1518	VRD-RA2EE4R7J*	47	1/4W	Carbon
⚠	R1519	VRS-VV3DB221J	220	2W	Metal Oxide
	R1520	VRD-RA2BE102J*	1k	1/8W	Carbon
	R1521	VRD-RA2BE223J*	22k	1/8W	Carbon
	R1522	VRD-RA2BE821J*	820	1/8W	Carbon
	R1523	VRD-RA2BE471J*	470	1/8W	Carbon
	R1524	VRD-RA2BE471J*	470	1/8W	Carbon
	R1525	VRD-RA2BE152J*	1.5k	1/8W	Carbon
	R1526	VRD-RA2BE393J*	39k	1/8W	Carbon
	R1527	VRD-RA2BE182J*	1.8k	1/8W	Carbon
	R1528	VRD-RA2BE821J*	820	1/8W	Carbon
	R1529	VRD-RA2BE273J*	27k	1/8W	Carbon
	R1530	VRD-RA2BE393J*	39k	1/8W	Carbon
	R1531	VRD-RA2BE152J*	1.5k	1/8W	Carbon
	R1532	VRD-RA2BE101J*	100	1/8W	Carbon
	R1534	VRD-RA2BE221J*	220	1/8W	Carbon

MISCELLANEOUS PARTS

	FB852	RBLN-A034WJZZ*	Ferrite Bead
	FB1501	RBLN-0020CEZZ+	Ferrite Bead
	P851	QTIPM0083CEZZ	Tip
	P852	QTIPM0083CEZZ	Tip
	P854	QPLGN0261CEZZ	Plug, 2pin
	P855	QPLGN0761CEZZ	Plug, 7pin (H)
	P860	QPLGN0878GEZZ	Plug, 8pin (KY)
	RDA851	PRDAR0248PEFW	Heat Sink (for IC851)
	RDA1503	PRDAR0083PEFW	Heat Sink
	RDA1504	PRDAR0083PEFW	Heat Sink
⚠	SC851	QSOCVA005WJZZ	Socket 12pin

PWB-C FRONT Unit DUNTKD090WEA0

INTEGRATED CIRCUITS

⚠	IC4701	VHIMIP0254/-1	MIP0254SPSCF
⚠	IC4702	RH-FXA003WJZZ	PC123Y82

TRANSISTORS

	Q4001	VS2SA1266-Y-1+	2SA1266-Y
	Q4002	VS2SC3198-Y-1+	2SC3198-Y
	Q4003	VS2SC3198-Y-1+	2SC3198-Y
	Q4004	VS2SC3198-Y-1+	2SC3198-Y
	Q4005	VS2SC3198-G-1+	2SC3198-G
	Q4006	VS2SC3198-G-1+	2SC3198-G

DIODES AND LED'S

	D4001	RH-PXA036WJZZ	PhotoDiode
	D4002	RH-PXA036WJZZ	PhotoDiode
	D4003	RH-PX0037PEZZ	PhotoDiode
	D4701	RH-DX0407CEZZ*	DX0407CE
	D4706	RH-EX1329CEZZ*	Zener Diode, 5.6V
⚠	D4707	RH-DX0083GEZZ	DX0083GE
⚠	VA4701	RH-VX0073CEZZ	Varistor

COILS AND TRANSFORMER

⚠	L4701	RCILFA106WJZZ	Coil
	L4903	RCILP0195CEZZ+	Coil
⚠	T4701	RTRNZ0190PEZZ	Transformer

CAPACITORS

	C4001	VCEA0A1HW476M+	47	50V	Electrolytic
	C4002	VCKYPA1HF103Z+	0.01	50V	Ceramic
	C4372	VCEA0A1CW476M+	47	16V	Electrolytic
	C4373	VCEA0A1CW476M+	47	16V	Electrolytic
	C4380	VCEA0A1HW105M+	1	50V	Electrolytic
	C4381	VCEA0A1HW105M+	1	50V	Electrolytic
⚠	C4701	RC-FZA097WJZZ	0.22	AC250V	
	C4702	VCKYPA2HB221K+	220p	500V	Ceramic
⚠	C4703	VCEA0A2GW475M	4.7	400V	Electrolytic
⚠	C4704	VCQYTA1HM104K+	0.1	50V	Mylar
⚠	C4705	RC-KZ016SCEZZ	470p	250V	Ceramic
	C4706	RC-EZA160WJZZ	470	16V	
⚠	C4707	RC-KZ0069GEZZ	47p	2kV	
	C4710	VCEA0A1CW476M+	47	16V	Electrolytic
	C4913	VCKYPA1HB102K+	1000p	50V	Ceramic
	C4916	VCKYPA1HB102K+	1000p	50V	Ceramic
	C4922	VCEA0A1HW106M+	10	50V	Electrolytic
	C4924	VCEA0A1HW106M+	10	50V	Electrolytic

RESISTORS

	R4001	VRD-RA2BE221J*	220	1/8W	Carbon
	R4002	VRD-RA2BE331J*	330	1/8W	Carbon
	R4003	VRD-RA2BE681J*	680	1/8W	Carbon
	R4004	VRD-RA2BE152J*	1.5k	1/8W	Carbon
	R4005	VRD-RA2BE222J*	2.2k	1/8W	Carbon
	R4006	VRD-RA2BE152J*	1.5k	1/8W	Carbon
	R4008	VRD-RA2BE223J*	22k	1/8W	Carbon
	R4009	VRD-RA2BE103J*	10k	1/8W	Carbon
	R4010	VRD-RA2BE470J*	47	1/8W	Carbon
	R4011	VRD-RA2BE223J*	22k	1/8W	Carbon
	R4013	VRD-RA2BE103J*	10k	1/8W	Carbon
	R4021	VRD-RA2BE181J*	180	1/8W	Carbon
	R4022	VRD-RA2BE223J*	22k	1/8W	Carbon
	R4023	VRD-RA2BE103J*	10k	1/8W	Carbon
	R4024	VRD-RA2BE473J*	47k	1/8W	Carbon
	R4025	VRD-RA2BE472J*	4.7k	1/8W	Carbon
	R4026	VRD-RA2BE331J*	330	1/8W	Carbon
	R4028	VRD-RA2BE392J*	3.9k	1/8W	Carbon
	R4031	VRD-RA2BE392J*	3.9k	1/8W	Carbon
	R4033	VRD-RA2BE181J*	180	1/8W	Carbon
	R4359	VRD-RA2BE102J*	1k	1/8W	Carbon
	R4369	VRD-RA2BE100J*	10	1/8W	Carbon
	R4370	VRD-RA2BE100J*	10	1/8W	Carbon
	R4371	VRD-RA2BE332J*	3.3k	1/8W	Carbon
	R4372	VRD-RA2BE332J*	3.3k	1/8W	Carbon
	R4373	VRD-RA2EE680J*	68	1/4W	Carbon
	R4374	VRD-RA2EE680J*	68	1/4W	Carbon
	R4375	VRD-RA2BE101J*	100	1/8W	Carbon
	R4376	VRD-RA2BE273J*	27k	1/8W	Carbon
	R4377	VRD-RA2BE101J*	100	1/8W	Carbon
	R4378	VRD-RA2BE273J*	27k	1/8W	Carbon

Ref. No.	Part No.	Description
R1034	VRD-RA2BE122J*	1.2k 1/8W Carbon
R2001	VRD-RA2BE103J*	10k 1/8W Carbon
R2002	VRD-RA2BE101J*	100 1/8W Carbon
R2004	VRS-CY1JF332J*	3.3k 1/16W Metal Oxide
R2005	VRD-RA2BE101J*	100 1/8W Carbon
R2006	VRD-RA2BE101J*	100 1/8W Carbon
R2007	VRS-CY1JF222J*	2.2k 1/16W Metal Oxide
R2008	VRS-CY1JF101J*	100 1/16W Metal Oxide
R2009	VRS-CY1JF101J*	100 1/16W Metal Oxide
R2010	VRS-CY1JF101J*	100 1/16W Metal Oxide
R2011	VRD-RA2BE101J*	100 1/8W Carbon
R2012	VRS-CY1JF101J*	100 1/16W Metal Oxide
R2015	VRS-CY1JF101J*	100 1/16W Metal Oxide
R2016	VRS-CY1JF101J*	100 1/16W Metal Oxide
R2017	VRS-CY1JF102J*	1k 1/16W Metal Oxide
R2018	VRD-RA2BE101J*	100 1/8W Carbon
R2019	VRD-RA2BE101J*	100 1/8W Carbon
R2020	VRS-CY1JF101J*	100 1/16W Metal Oxide
R2021	VRD-RA2BE100J*	10 1/8W Carbon
R2022	VRS-CY1JF100J*	10 1/16W Metal Oxide
R2023	VRS-CY1JF101J*	100 1/16W Metal Oxide
R2024	VRD-RA2BE101J*	100 1/8W Carbon
R2025	VRD-RA2BE101J*	100 1/8W Carbon
R2028	VRD-RA2BE101J*	100 1/8W Carbon
R2029	VRD-RA2BE101J*	100 1/8W Carbon
R2030	VRD-RA2BE101J*	100 1/8W Carbon
R2031	VRS-VV3AB100J	10 1W Metal Oxide
R2033	VRS-CY1JF684J*	680k 1/16W Metal Oxide
R2034	VRS-VV3AB100J	10 1W Metal Oxide
R2035	VRD-RA2BE101J*	100 1/8W Carbon
R2036	VRD-RA2BE101J*	100 1/8W Carbon
R2037	VRD-RA2BE101J*	100 1/8W Carbon
R2038	VRS-CY1JF333J*	33k 1/16W Metal Oxide
R2039	VRS-CY1JF101J*	100 1/16W Metal Oxide
R2040	VRS-CY1JF101J*	100 1/16W Metal Oxide
R2042	VRS-CY1JF332J*	3.3k 1/16W Metal Oxide
R2043	VRS-CY1JF332J*	3.3k 1/16W Metal Oxide
R2044	VRS-CY1JF103J*	10k 1/16W Metal Oxide
R2052	VRS-CY1JF332J*	3.3k 1/16W Metal Oxide
R2101	VRD-RA2BE563G*	56k 1/8W Carbon
R2102	VRD-RA2BE333G*	33k 1/8W Carbon
R2103	VRD-RA2BE333G*	33k 1/8W Carbon
R2104	VRS-CY1JF472J*	4.7k 1/16W Metal Oxide
R2105	VRS-CY1JF472J*	4.7k 1/16W Metal Oxide
R2106	VRD-RA2BE563G*	56k 1/8W Carbon
R2107	VRD-RA2BE101J*	100 1/8W Carbon

MISCELLANEOUS PARTS

Ref. No.	Part No.	Description
FB301	RBLN-0047CEZZ*	Ferrite Bead
FB302	RBLN-0047CEZZ*	Ferrite Bead
FB303	RBLN-0047CEZZ*	Ferrite Bead
FB304	RBLN-0047CEZZ*	Ferrite Bead
FB501	RBLN-0047CEZZ*	Ferrite Bead
FB502	RBLN-0047CEZZ*	Ferrite Bead
⚠ FB601	RBLN-0047CEZZ*	Ferrite Bead
FB602	RBLN-0047CEZZ*	Ferrite Bead
FB503	RBLN-0020CEZZ+	Ferrite Bead
FB603	RBLN-0020CEZZ+	Ferrite Bead
FB702	RBLN-0020CEZZ+	Ferrite Bead
FB703	RBLN-0020CEZZ+	Ferrite Bead
FB751	RBLN-0020CEZZ+	Ferrite Bead
FB752	RBLN-0020CEZZ+	Ferrite Bead
J905	QTANJA056WJZZ	Terminal
J907	QSOCDA023WJZZ	Socket, 6pin
P301	QPLGN0461CEZZ	Plug, 4pin (SP)
P303	QPLGN0361CEZZ	Plug, 3pin (SW)
P401	QPLGN0878GEZZ	Plug, 8pin (KY)
⚠ P601	QPLGN0160FJZZ	Plug, 5pin (K)
P621	QPLGN0761CEZZ	Plug, 7pin (H)
P701	QPLGN0260CEZZ	Plug, 2pin
P702	QPLGN0269GEZZ	Plug, 2pin (AC)
P1001	QPLGN0761CEZZ	Plug, 7pin (CC)
P1002	QPLGN0678GEZZ	Plug, 6pin (CA)
P1003	QPLGN0778GEZZ	Plug, 7pin (CD)
P1004	QPLGN0461CEZZ	Plug, 4pin (CB)
P2100	QPLGN0661CEZZ	Plug, 6pin
RDA602	PRDARA123WJPW	Heat Sink for Q602
RDA604	PRDARA113WJPW	Heat Sink for Q604
⚠ RDA701	PRDARA140WJPW	Heat Sink for IC701
RDA751	PRDAR5072CEFW	Heat Sink for C751
⚠ RY701	RRLYJ0089CEZZ	Relay
TP53	QLUGP0102PEZZ	Lug

PWB-B CRT Unit DUNTKC519WEA6

INTEGRATED CIRCUIT

IC851	VHITDA6107A-1	TDA6107AJF/N1

TRANSISTORS

Q1501	VS2SC3198-Y-1+	2SC3198-Y
Q1502	VS2SA1266-Y-1+	2SA1266-Y
Q1503	VS2SA2005++1E	2SA2005
Q1504	VS2SC5511++1E	2SC5511
Q1505	VS2SC3198-Y-1+	2SC3198-Y
Q1506	VS2SC3198-Y-1+	2SC3198-Y
Q1507	VS2SC3198-Y-1+	2SC3198-Y
Q1508	VS2SC3198-Y-1+	2SC3198-Y

DIODES

D851	RH-DX0220CEZZ*	DX0220CE
D852	RH-DX0220CEZZ*	DX0220CE
D853	RH-DX0220CEZZ*	DX0220CE
D854	RH-DX0220CEZZ*	DX0220CE
D855	RH-DX0220CEZZ*	DX0220CE
D856	RH-DX0220CEZZ*	DX0220CE
D1501	VHD1SS133++-1*	1SS133
D1506	VHD1SS133++-1*	1SS133
D1507	VHD1SS133++-1*	1SS133
D1508	RH-DX0487CEZZ*	DX0487CE
D1509	RH-DX0487CEZZ*	DX0487CE

CAPACITORS

C851	VCFYSB2EB823J	0.082	250V
C852	VCEA0A2EW106M+	10	250V Electrolytic
C853	VCKYPA2HB221K+	220p	500V Ceramic
C854	RC-KZ018JCEZZ	0.01	AC250V Ceramic
C855	VCKYPA2HB221K+	220p	500V Ceramic
C857	VCFYSB2EB823J	0.082	250V
C858	VCQYTA1HM104J+	0.1	50V Mylar
C859	VCEA0A2AW106M+	10	100V Electrolytic
C1501	VCEA0A1EW476M+	47	25V Electrolytic
C1502	VCKYPA1HF103Z+	0.01	50V Ceramic
C1503	VCKYPA2HB472K+	4700p	500V Ceramic
C1504	VCKYPA2HB472K+	4700p	500V Ceramic
C1505	VCKYPA1HF103Z+	0.01	50V Ceramic
C1506	VCKYPA1HF103Z+	0.01	50V Ceramic
C1507	VCEA0A1EW476M+	47	25V Electrolytic
C1508	VCCSPA2HL560K+	56p	500V Ceramic
C1510	VCEA4A2CN106M+	10	160V Electrolytic
C1511	VCEA0A1EW476M+	47	25V Electrolytic
C1512	VCQYTA1HM822J+	8200p	50V Mylar
C1513	VCQYTA1HM103J+	0.01	50V Mylar
C1514	VCCSPA2HL560K+	56p	500V Ceramic
C1515	VCQYTA1HM103J+	0.01	50V Mylar
C1516	VCQYTA1HM104K+	0.1	50V Mylar
C1517	VCKYPA2HB102K+	1000p	500V Ceramic
JB311	VCKYPA2HB102K+	1000p	500V Ceramic

Ref. No.	Part No.			Description
R377	VRD-RA2BE101J*	100	1/8W	Carbon
R378	VRD-RA2BE101J*	100	1/8W	Carbon
R390	VRN-VV3ABR22J	0.22	1W	Metal Film
R391	VRN-VV3ABR22J	0.22	1W	Metal Film
R392	VRS-CY1JF333J*	33k	1/16W	Metal Oxide
R393	VRS-CY1JF103J*	10k	1/16W	Metal Oxide
R394	VRS-CY1JF333J*	33k	1/16W	Metal Oxide
R395	VRS-CY1JF103J*	10k	1/16W	Metal Oxide
R396	VRS-CY1JF103J*	10k	1/16W	Metal Oxide
R397	VRS-CY1JF333J*	33k	1/16W	Metal Oxide
R501	VRS-CY1JF562J*	5.6k	1/16W	Metal Oxide
R502	VRS-CY1JF123J*	12k	1/16W	Metal Oxide
R503	VRD-RA2BE222J*	2.2k	1/8W	Carbon
R504	VRD-RA2BE822J*	8.2k	1/8W	Carbon
R505	VRS-CY1JF123J*	12k	1/16W	Metal Oxide
R507	VRN-RA2BK272F*	2.7k	1/8W	Metal Film
R508	VRD-RA2BE683J*	68k	1/8W	Carbon
R513	VRS-CY1JF103J*	10k	1/16W	Metal Oxide
R514	VRN-VV3ABR82J	0.82	1W	Metal Film
R515	VRS-VV3DB221J	220	2W	Metal Oxide
R516	VRS-VV3DB471J	470	2W	Metal Oxide
R518	VRD-RA2BE101J*	100	1/8W	Carbon
R519	VRD-RA2BE101J*	100	1/8W	Carbon
R520	VRD-RA2BE101J*	100	1/8W	Carbon
R521	VRS-CY1JF123J*	12k	1/16W	Metal Oxide
R522	VRD-RA2BE102J*	1k	1/8W	Carbon
R523	VRD-RM2HD680J*	68	1/2W	Carbon
R524	VRD-RA2BE103J*	10k	1/8W	Carbon
R525	VRD-RA2BE102J*	1k	1/8W	Carbon
R600	VRS-CY1JF393F*	39k	1/16W	Metal Oxide
R602	VRS-SV2HC270J	27	1/2W	Metal Oxide
⚠ R603	VRD-RA2BE101J*	100	1/8W	Carbon
⚠ R604	VRN-VV3AB4R7J	4.7	1W	Metal Film
⚠ R605	VRD-RA2EE103G*	10k	1/4W	Carbon
⚠ R606	VRN-VV3ABR47J	0.47	1W	Metal Film
⚠ R607	VRD-RA2EE103J*	10k	1/4W	Carbon
⚠ R608	VRS-CY1JF393J*	39k	1/16W	Metal Oxide
R609	VRN-VV3DB6R8J	6.8	2W	Metal Film
⚠ R610	VRN-VV3DBR15J	0.15	2W	Metal Film
R611	VRS-VV3DB332J	3.3k	2W	Metal Oxide
R612	VRD-RA2BE101J*	100	1/8W	Carbon
R614	VRD-RM2HD124J*	120k	1/2W	Carbon
R615	VRD-RM2HD154J*	150k	1/2W	Carbon
R616	VRD-RM2HD472J*	4.7k	1/2W	Carbon
⚠ R617	VRD-RA2BE102J*	1k	1/8W	Carbon
R618	VRN-VV3ABR47J	0.47	1W	Metal Film
R619	VRS-SV2HC102J	1k	1/2W	Metal Oxide
⚠ R620	VRD-RA2BE152J*	1.5k	1/8W	Carbon
R621	VRD-RM2HD220J*	22	1/2W	Carbon
R622	VRD-RA2BE394J*	390k	1/8W	Carbon
R623	VRS-VV3AB102J	1k	1W	Metal Oxide
R624	VRD-RA2BE394J*	390k	1/8W	Carbon
R625	VRD-RA2BE394J*	390k	1/8W	Carbon
R626	VRS-VV3AB562J	5.6k	1W	Metal Oxide
R627	VRS-CY1JF394J*	390k	1/16W	Metal Oxide
R628	VRS-KA3NG1R2K	1.2	7W	Metal Oxide
R631	VRS-KA3NG122J	1.2k	7W	Metal Oxide
R633	VRS-CY1JF331J*	330	1/16W	Metal Oxide
R634	VRS-CY1JF331J*	330	1/16W	Metal Oxide
R635	VRS-CY1JF102J*	1k	1/16W	Metal Oxide
R636	VRS-VV3AB221J	220	1W	Metal Oxide
R637	VRS-CY1JF563J*	56k	1/16W	Metal Oxide
R638	VRS-CY1JF473J*	47k	1/16W	Metal Oxide
R639	VRS-KA3NG152J	1.5k	7W	Metal Oxide
R640	VRS-CY1JF182J*	1.8k	1/16W	Metal Oxide
R643	VRN-VV3LB3R3J	3.3	3W	Metal Film
R645	VRD-RA2BE473J*	47k	1/8W	Carbon
R652	VRS-CY1JF102J*	1k	1/16W	Metal Oxide
R654	VRS-VV3DB103J	10k	2W	Metal Oxide
R657	VRS-KA3HG681J	680	5W	Metal Oxide
R669	VRD-RA2BE101J*	100	1/8W	Carbon
R671	VRD-RA2BE101J*	100	1/8W	Carbon
R701	VRD-RM2HD100J*	10	1/2W	Carbon
R702	VRD-RA2EE152J*	1.5k	1/4W	Carbon
R703	VRD-RA2EE473J*	47k	1/4W	Carbon

Ref. No.	Part No.			Description
R704	VRD-RA2BE101J*	100	1/8W	Carbon
R705	VRD-RA2BE102J*	1k	1/8W	Carbon
R706	VRD-RA2BE102J*	1k	1/8W	Carbon
R707	VRS-VV3DB104J	100k	2W	Metal Oxide
R709	VRN-VV3DBR22J	0.22	2W	Metal Film
R710	RH-HXA014WJZZ+			Thermistor
⚠ R712	RR-HZ0014GEZZ*	12	1	
R715	VRS-CY1JF154J*	150k	1/16W	Metal Oxide
R716	VRN-VV3DBR22J	0.22	2W	Metal Film
R717	VRS-VV3DB104J	100k	2W	Metal Oxide
R752	VRS-VV3AB330J	33	1W	Metal Oxide
R753	VRD-RA2EE471J*	470	1/4W	Carbon
R760	VRS-CY1JF102J*	1k	1/16W	Metal Oxide
R761	VRS-CY1JF103J*	10k	1/16W	Metal Oxide
R762	VRS-VV3DB220J	22	2W	Metal Oxide
R763	VRD-RA2BE470J*	47	1/8W	Carbon
R764	VRD-RA2BE102J*	1k	1/8W	Carbon
R765	VRD-RA2BE102J*	1k	1/8W	Carbon
R767	VRS-VV3DB220J	22	2W	Metal Oxide
R768	VRD-RA2EE182J*	1.8k	1/4W	Carbon
R769	VRD-RA2BE821J*	820	1/8W	Carbon
R901	VRS-CY1JF000J*	0	1/16W	Metal Oxide
R902	VRS-CY1JF103J*	10k	1/16W	Metal Oxide
R903	VRS-CY1JF750J*	75	1/16W	Metal Oxide
R905	VRS-CY1JF101J*	100	1/16W	Metal Oxide
R906	VRS-CY1JF101J*	100	1/16W	Metal Oxide
R907	VRS-CY1JF101J*	100	1/16W	Metal Oxide
R908	VRD-RA2BE101J*	100	1/8W	Carbon
R909	VRD-RA2BE101J*	100	1/8W	Carbon
R910	VRS-CY1JF101J*	100	1/16W	Metal Oxide
R911	VRS-CY1JF101J*	100	1/16W	Metal Oxide
R912	VRD-RA2BE101J*	100	1/8W	Carbon
R913	VRS-CY1JF101J*	100	1/16W	Metal Oxide
R914	VRS-CY1JF101J*	100	1/16W	Metal Oxide
R915	VRS-CY1JF000J*	0	1/16W	Metal Oxide
R917	VRS-CY1JF103J*	10k	1/16W	Metal Oxide
R918	VRS-CY1JF103J*	10k	1/16W	Metal Oxide
R919	VRS-CY1JF000J*	0	1/16W	Metal Oxide
R920	VRS-CY1JF103J*	10k	1/16W	Metal Oxide
R921	VRS-CY1JF000J*	0	1/16W	Metal Oxide
R926	VRS-CY1JF151J*	150	1/16W	Metal Oxide
R928	VRD-RA2BE333J*	33k	1/8W	Carbon
R930	VRS-CY1JF750J*	75	1/16W	Metal Oxide
R931	VRS-CY1JF750J*	75	1/16W	Metal Oxide
R932	VRS-CY1JF750J*	75	1/16W	Metal Oxide
R933	VRS-CY1JF151J*	150	1/16W	Metal Oxide
R934	VRS-CY1JF750J*	75	1/16W	Metal Oxide
R935	VRS-CY1JF104J*	100k	1/16W	Metal Oxide
R936	VRS-CY1JF122J*	1.2k	1/16W	Metal Oxide
R938	VRD-RA2BE101J*	100	1/8W	Carbon
R942	VRS-CY1JF122J*	1.2k	1/16W	Metal Oxide
R944	VRD-RA2BE101J*	100	1/8W	Carbon
R945	VRS-CY1JF473J*	47k	1/16W	Metal Oxide
R947	VRD-RA2BE561J*	560	1/8W	Carbon
R948	VRS-CY1JF473J*	47k	1/16W	Metal Oxide
R949	VRS-CY1JF561J*	560	1/16W	Metal Oxide
R950	VRS-CY1JF102J*	1k	1/16W	Metal Oxide
R952	VRS-CY1JF102J*	1k	1/16W	Metal Oxide
R956	VRD-RA2BE560J*	56	1/8W	Carbon
R957	VRS-CY1JF331J*	330	1/16W	Metal Oxide
R959	VRS-CY1JF223J*	22k	1/16W	Metal Oxide
R960	VRS-CY1JF331J*	330	1/16W	Metal Oxide
R963	VRD-RA2BE101J*	100	1/8W	Carbon
R964	VRD-RA2BE123J*	12k	1/8W	Carbon
R967	VRD-RA2BE333J*	33k	1/8W	Carbon
R968	VRS-CY1JF101J*	100	1/16W	Metal Oxide
R969	VRS-CY1JF101J*	100	1/16W	Metal Oxide
R970	VRD-RA2BE333J*	33k	1/8W	Carbon
R971	VRS-CY1JF562J*	5.6k	1/16W	Metal Oxide
R972	VRD-RA2BE333J*	33k	1/8W	Carbon
R977	VRD-RA2BE101J*	100	1/8W	Carbon
R978	VRS-CY1JF104J*	100k	1/16W	Metal Oxide
R979	VRS-CY1JF104J*	100k	1/16W	Metal Oxide
R1032	VRS-CY1JF122J*	1.2k	1/16W	Metal Oxide

Ref. No.	Part No.			Description
C2021	VCEA9M1CW107M+	100	16V	Electrolytic
C2022	VCKYCY1CF224Z*	0.22	16V	Ceramic
C2023	VCKYCY1CF224Z*	0.22	16V	Ceramic
C2025	VCKYCY1CF224Z*	0.22	16V	Ceramic
C2026	VCKYCY1HB104K*	0.1	50V	Ceramic
C2027	VCEA9M1CW107M+	100	16V	Electrolytic
C2028	VCKYCY1CF224Z*	0.22	16V	Ceramic
C2029	VCKYCY1CF224Z*	0.22	16V	Ceramic
C2030	VCKYCY1CF224Z*	0.22	16V	Ceramic
C2032	VCEA0A1JW227M+	220	63V	Electrolytic
C2034	VCFYFA1HA224J+	0.22	50V	
C2035	VCKYCY1HB104K*	0.1	50V	Ceramic
C2036	VCKYCY1CF224Z*	0.22	16V	Ceramic
C2038	VCEA9M1HW105M+	1	50V	Electrolytic
C2039	VCKYCY1CF334Z*	0.33	16V	Ceramic
C2040	VCEA9M1CW107M+	100	16V	Electrolytic
C2041	VCKYCY1HB104K*	0.1	50V	Ceramic
C2042	VCKYCY1HB104K*	0.1	50V	Ceramic
C2044	VCKYCY1HB104K*	0.1	50V	Ceramic
C2045	VCKYCY1HB104K*	0.1	50V	Ceramic
C2046	VCEA0A1AW107M+	100	10V	Electrolytic
C2047	VCKYCY1HB104K*	0.1	50V	Ceramic
C2048	VCKYCY1HB104K*	0.1	50V	Ceramic
C2100	VCEA0A1CW226M+	22	16V	Electrolytic
C2101	VCKYCY1AB334K*	0.33	10V	Ceramic

RESISTORS

RJ10	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ11	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ12	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ15	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ16	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ18	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ19	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ20	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ21	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ22	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ23	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ24	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ25	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ27	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ32	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ33	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ36	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ37	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ38	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ40	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ41	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ51	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ200	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ236	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ307	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ457	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ501	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ506	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ701	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ901	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ904	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ909	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ921	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ922	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ923	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ924	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ926	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ927	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ928	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ929	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ936	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ938	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ939	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ940	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ960	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ961	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ963	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ964	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ965	VRS-CY1JF000J*	0	1/16W Metal Oxide
RJ966	VRS-CY1JF000J*	0	1/16W Metal Oxide
R51	VRS-CY1JF000J*	0	1/16W Metal Oxide
R52	VRD-RA2BE103J*	10k	1/8W Carbon
R53	VRS-CY1JF563J*	56k	1/16W Metal Oxide
R54	VRS-CY1JF101J*	100	1/16W Metal Oxide
R55	VRS-CY1JF101J*	100	1/16W Metal Oxide
R103	VRS-VV3DB123J	12k	2W Metal Oxide
R201	VRS-CY1JF222J*	2.2k	1/16W Metal Oxide
R202	VRS-CY1JF682J*	6.8k	1/16W Metal Oxide
R204	VRS-CY1JF222J*	2.2k	1/16W Metal Oxide
R205	VRS-CY1JF471J*	470	1/16W Metal Oxide
R206	VRS-CY1JF392J*	3.9k	1/16W Metal Oxide
R207	VRS-CY1JF272J*	2.7k	1/16W Metal Oxide
R208	VRS-CY1JF101J*	100	1/16W Metal Oxide
R210	VRD-RA2BE122J*	1.2k	1/8W Carbon
R212	VRS-CY1JF682J*	6.8k	1/16W Metal Oxide
R214	VRS-CY1JF222J*	2.2k	1/16W Metal Oxide
R216	VRS-CY1JF222J*	2.2k	1/16W Metal Oxide
R217	VRD-RA2BE223J*	22k	1/8W Carbon
R218	VRS-CY1JF223J*	22k	1/16W Metal Oxide
R219	VRS-CY1JF223J*	22k	1/16W Metal Oxide
R220	VRD-RA2BE223J*	22k	1/8W Carbon
R221	VRS-CY1JF181J*	180	1/16W Metal Oxide
R227	VRS-CY1JF680J*	68	1/16W Metal Oxide
R228	VRS-CY1JF102J*	1k	1/16W Metal Oxide
R230	VRS-CY1JF391J*	390	1/16W Metal Oxide
R301	VRS-CY1JF100J*	10	1/16W Metal Oxide
R302	VRS-CY1JF100J*	10	1/16W Metal Oxide
R303	VRS-CY1JF100J*	10	1/16W Metal Oxide
R304	VRS-CY1JF100J*	10	1/16W Metal Oxide
R305	VRS-CY1JF103J*	10k	1/16W Metal Oxide
R307	VRD-RA2BE103J*	10k	1/8W Carbon
R309	VRS-CY1JF333J*	33k	1/16W Metal Oxide
R310	VRD-RA2BE123J*	12k	1/8W Carbon
R311	VRS-CY1JF562J*	5.6k	1/16W Metal Oxide
R314	VRS-CY1JF333J*	33k	1/16W Metal Oxide
R315	VRS-CY1JF273J*	27k	1/16W Metal Oxide
R316	VRS-CY1JF472J*	4.7k	1/16W Metal Oxide
R317	VRS-CY1JF562J*	5.6k	1/16W Metal Oxide
R318	VRS-CY1JF000J*	0	1/16W Metal Oxide
R319	VRS-CY1JF102J*	1k	1/16W Metal Oxide
R320	VRS-CY1JF562J*	5.6k	1/16W Metal Oxide
R321	VRS-CY1JF100J*	10	1/16W Metal Oxide
R322	VRS-CY1JF100J*	10	1/16W Metal Oxide
R323	VRS-CY1JF562J*	5.6k	1/16W Metal Oxide
R326	VRS-CY1JF333J*	33k	1/16W Metal Oxide
R328	VRS-CY1JF562J*	5.6k	1/16W Metal Oxide
R329	VRS-CY1JF562J*	5.6k	1/16W Metal Oxide
R331	VRS-CY1JF100J*	10	1/16W Metal Oxide
R332	VRS-CY1JF100J*	10	1/16W Metal Oxide
R334	VRS-VV3AB220J	22	1W Metal Oxide
R335	VRS-VV3AB220J	22	1W Metal Oxide
R336	VRS-VV3AB220J	22	1W Metal Oxide
R337	VRS-VV3AB220J	22	1W Metal Oxide
R339	VRN-VV3AB4R7J	4.7	1W Metal Film
R340	VRN-VV3AB4R7J	4.7	1W Metal Film
R341	VRD-RM2HD4R7J*	4.7	1/2W Carbon
R342	VRD-RM2HD4R7J*	4.7	1/2W Carbon
R344	VRS-CY1JF562J*	5.6k	1/16W Metal Oxide
R347	VRS-CY1JF101J*	100	1/16W Metal Oxide
R348	VRS-CY1JF101J*	100	1/16W Metal Oxide
R351	VRS-CY1JF123J*	12k	1/16W Metal Oxide
R355	VRS-CY1JF562J*	5.6k	1/16W Metal Oxide
R375	VRD-RA2BE102J*	1k	1/8W Carbon
R376	VRD-RA2BE102J*	1k	1/8W Carbon

Ref. No.	Part No.			Description
C377	VCEA0A1EW477M+	470	25V	Electrolytic
C378	VCEA0A1EW477M+	470	25V	Electrolytic
C379	VCEA0A1HW226M+	22	50V	Electrolytic
C380	VCEA0A1EW477M+	470	25V	Electrolytic
C381	VCEA0A1EW477M+	470	25V	Electrolytic
C382	VCEA0A1HW226M+	22	50V	Electrolytic
C383	VCEA0A1EW477M+	470	25V	Electrolytic
C384	VCEA0A1EW477M+	470	25V	Electrolytic
C385	VCKYCY1CB333K*	0.033	16V	Ceramic
C390	VCEA0A1CW477M+	470	16V	Electrolytic
C501	VCKYCY1HB102K*	1000p	50V	Ceramic
C502	VCKYPA1HB102K+	1000p	50V	Ceramic
C503	VCKYPA1HB102K+	1000p	50V	Ceramic
C504	VCEA0A1EW108M	1000	25V	Electrolytic
C506	VCKYCY1HB331K*	330p	50V	Ceramic
C508	VCKYTV1HF104Z*	0.1	50V	Ceramic
C509	VCKYTV1HF104Z*	0.1	50V	Ceramic
C510	VCEA0A1EW108M	1000	25V	Electrolytic
C511	VCKYTV1HF104Z*	0.1	50V	Ceramic
C512	VCEA0A1VW107M+	100	35V	Electrolytic
C513	VCFYFA1HA224J+	0.22	50V	
C514	VCKYPA1HB471K+	470p	50V	Ceramic
C515	VCKYPA1HB472K+	4700p	50V	Ceramic
C516	VCKYCY1HB104K*	0.1	50V	Ceramic
C517	RC-FZ0272CEZZ+	0.39	100V	
C518	VCEA0A1HW107M+	100	50V	Electrolytic
C519	VCEA9M1HW474M+	0.47	50V	Electrolytic
C520	VCCCCY1HH102J*	1000p	50V	Ceramic
C521	VCCCCY1HH102J*	1000p	50V	Ceramic
C522	VCEA9M1HW106M+	10	50V	Electrolytic
C523	VCKYCY1HB223K*	0.022	50V	Ceramic
C524	VCEA0A1HW224M+	0.22	50V	Electrolytic
C525	VCEA9M1HW105M+	1	50V	Electrolytic
C526	VCQYTA1HM682K+	6800p	50V	Mylar
C527	VCQYTA1HM103J+	0.01	50V	Mylar
C528	VCEA0A1AW107M+	100	10V	Electrolytic
C529	VCKYCY1HB103K*	0.01	50V	Ceramic
C530	VCE9GA1CW106M+	10	16V	Electrolytic
C531	VCEA0A2AW225M+	2.2	100V	Electrolytic
C532	VCKYPA1HB102K+	1000p	50V	Ceramic
C534	RC-KZ1007CEZZ	820p		Ceramic
C600	VCFPFA2EB154J	0.15	250V	Metallzed Polypro Film
C601	VCKYCY1HB103K*	0.01	50V	Ceramic
▲⚠ C602	VCFPVC3ZA193H	0.019	1800V	Metallzed Polypro Film
▲⚠ C603	VCQPPC2JB473J	0.047	630V	
C605	VCKYPA2HB102K+	1000p	500V	Ceramic
C606	VCKYPH3DB561K	560p	2000V	Ceramic
C607	RC-KZ0106GEZZ	3300p	250V	Ceramic
C608	VCEA4A2EN106M+	10	250V	Electrolytic
C609	VCKYPA2HB102K+	1000p	500V	Ceramic
C610	VCEA0A1EW108M	1000	25V	Electrolytic
⚠ C611	VCEA0A1VW476M+	47	35V	Electrolytic
C612	VCKYPA2HB151K+	150p	500V	Ceramic
C613	VCCCCY1HH101J*	100p	50V	Ceramic
⚠ C614	VCEA0A1VW336M+	33	35V	Electrolytic
C615	VCKYPA2HB102K+	1000p	500V	Ceramic
C616	VCEA0A1EW108M	1000	25V	Electrolytic
C617	VCQYTA2AA104K+	0.1	100V	Mylar
C618	RC-KZ0033CEZZ	150p	2kV	Ceramic
C620	VCKYPA1HB472K+	4700p	50V	Ceramic
C621	VCEA0A1HW476M+	47	50V	Electrolytic
C622	VCKYPA2HB561K+	560p	500V	Ceramic
C623	VCKYPA2HB272K+	2700p	500V	Ceramic
C624	VCEA9M1HW475M+	4.7	50V	Electrolytic
C625	VCQYTA1HM104K+	0.1	50V	Ceramic
C627	RC-FZ0377CEZZ	4.7	100V	
C635	RC-FZ0363CEZZ	0.56	250V	
C636	RC-FZ0357CEZZ	0.22	250V	
C644	VCCCCY1HH102J*	1000p	50V	Ceramic
C645	VCKYCY1HB104K*	0.1	50V	Ceramic
C701	VCKYPA1HB102K+	1000p	50V	Ceramic
C702	RC-EZA243WJZZ	330	400V	
C703	RC-KZ018JCEZZ	0.01	AC250V	Ceramic
C704	RC-KZ018JCEZZ	0.01	AC250V	Ceramic
C705	VCFYFA1HA104J+	0.1	50V	
C706	VCEA0A1VW106M+	10	35V	Electrolytic
C707	RC-KZ1007CEZZ	820p		Ceramic
C708	VCEA9M1HW105M+	1	50V	Electrolytic
C709	VCKYPA1HB221K+	220p	50V	Ceramic
C711	RC-FZA097WJZZ	0.22	AC250V	
C713	VCEA9M1CW106M+	10	16V	Electrolytic
C714	VCKYCY1HB103K*	0.01	50V	Ceramic
C717	VCFYAA2JA103K+	0.01	630V	
C751	VCEA0A1CW476M+	47	16V	Electrolytic
C752	VCEA0A1EW478M	4700	25V	Electrolytic
⚠ C753	RC-KZ016SCEZZ	470p	250V	Ceramic
C754	RC-EZA065WJZZ	330	160V	
C755	RC-EZA065WJZZ	330	160V	
C756	RC-KZ0226CEZZ+	180p	2kV	
C757	VCEA0A1CW476M+	47	16V	Electrolytic
C758	RC-KZ0120GEZZ	150p	2V	Ceramic
C759	VCEA0A1EW108M	1000	25V	Electrolytic
C761	VCKYPA2HB101K+	100p	500V	Ceramic
C763	VCEA0A1HW105M+	1	50V	Electrolytic
C764	VCKYPA2HB101K+	100p	500V	Ceramic
C765	VCEA0A1EW108M	1000	25V	Electrolytic
C766	VCKYPA2HB101K+	100p	500V	Ceramic
C767	VCKYCY1HB153K*	0.015	50V	Ceramic
C768	VCKYCY1HB104K*	0.1	50V	Ceramic
C773	VCEA0A1HW106M+	10	50V	Electrolytic
C904	VCKYCY1HB104K*	0.1	50V	Ceramic
C905	VCKYCY1HB103K*	0.01	50V	Ceramic
C907	VCEA0A1HW106M+	10	50V	Electrolytic
C908	VCKYCY1HB104K*	0.1	50V	Ceramic
C911	VCKYCY1HB104K*	0.1	50V	Ceramic
C912	VCKYCY1HB103K*	0.01	50V	Ceramic
C922	VCKYCY1HB183K*	0.018	50V	Ceramic
C923	VCKYCY1HB183K*	0.018	50V	Ceramic
C928	VCEA0A1CW106M+	10	16V	Electrolytic
C930	VCEA0A1CW106M+	10	16V	Electrolytic
C931	VCEA0A1CW477M+	470	16V	Electrolytic
C934	VCEA0A1HW105M+	1	50V	Electrolytic
C935	VCEA0A1HW105M+	1	50V	Electrolytic
C937	VCEA0A1HW106M+	10	50V	Electrolytic
C938	VCEA0A1HW106M+	10	50V	Electrolytic
C939	VCEA0A1CW227M+	220	16V	Electrolytic
C942	VCEA0A1HW106M+	10	50V	Electrolytic
C944	RC-EZA559WJZZ			
C948	VCCCCY1HH180J*	18p	50V	Ceramic
C952	VCCCCY1HH681J*	680p	50V	Ceramic
C953	VCCCCY1HH681J*	680p	50V	Ceramic
C956	VCCCCY1HH681J*	680p	50V	Ceramic
C957	VCCCCY1HH681J*	680p	50V	Ceramic
C959	VCCCCY1HH681J*	680p	50V	Ceramic
C960	VCCCCY1HH681J*	680p	50V	Ceramic
C963	VCEA0A1HW106M+	10	50V	Electrolytic
C965	VCKYCY1HB103K*	0.01	50V	Ceramic
C2004	VCEA0A1CW226M+	22	16V	Electrolytic
C2005	VCKYCY1HB104K*	0.1	50V	Ceramic
C2006	VCKYCY1HB104K*	0.1	50V	Ceramic
C2007	VCKYCY1HB104K*	0.1	50V	Ceramic
C2008	VCKYCY1HB104K*	0.1	50V	Ceramic
C2009	VCEA9M1CW106M+	10	16V	Electrolytic
C2010	VCKYCY1HB104K*	0.1	50V	Ceramic
C2012	VCKYCY1HB102K*	1000p	50V	Ceramic
C2013	VCCCCY1HH7R0DY	7p	50V	Ceramic
C2014	VCCCCY1HH7R0DY	7p	50V	Ceramic
C2017	VCKYCY1CF224Z*	0.22	16V	Ceramic
C2018	VCKYCY1HB104K*	0.1	50V	Ceramic
C2019	VCEA9M1CW107M+	100	16V	Electrolytic
C2020	VCKYCY1HB104K*	0.1	50V	Ceramic

Ref. No.	Part No.	Description
D2102	VHD1SS133++-1*	1SS133
D2103	VHD1SS133++-1*	1SS133
D2104	VHD1SS133++-1*	1SS133
D2106	RH-EX1394CEZZ*	Zener Diode, 9.1V
D2107	RH-EX1394CEZZ*	Zener Diode, 9.1V
D2108	RH-EX1394CEZZ*	Zener Diode, 9.1V
JA38	VRD-RA2BE101J*	100 1/8W 5% Carbon
TH500	RH-HZ0004GEZZ+	Thermistor

PACKAGED CIRCUITS

⚠	PR701	RMPTP0085CEZZ	Packaged Circuit
	X940	RCRSB0138GEZZ	Crystal
	X2001	RCRSAA058WJZZ	Crystal

COIL AND TRANSFORMERS

	L51	VP-CF270K0000*	Peaking 27µH 10%
	L202	VP-DF100K0000*	Peaking 10µH 10%
	L203	VP-XF1R2K0000*	Peaking 1.2µH 10%
	L301	RCILPA288WJZZ	Coil 47µH
	L302	RCILPA288WJZZ	Coil 47µH
	L303	RCILPA288WJZZ	Coil 47µH
	L304	RCILPA288WJZZ	Coil 47µH
	L503	RCILZA029WJZZ	Coil
	L504	VP-XF220K0000*	Peaking 22µH 10%
	L601	RCILZ1005CEZZ	Coil
	L603	RCILZA053WJZZ	Coil
⚠	L701	RCILFA125WJZZ	Coil
	L751	RCILP0179CEZZ+	Coil 47µH
	L2001	VP-XF220K0000*	Peaking 22µH 10%
	L2003	VP-MK560K0000+	Peaking 56µH 10%
	L2004	VPCEM100MR70N*	Peaking 10µH 20%
	L2005	VPCEM100MR70N*	Peaking 10µH 20%
	L2006	VPCEM100MR70N*	Peaking 10µH 20%
	L2007	VPCEM100MR70N*	Peaking 10µH 20%
	L2008	VP-DF100K0000*	Peaking 10µH 10%
	L2009	VP-DF100K0000*	Peaking 10µH 10%
	L2010	VP-DF100K0000*	Peaking 10µH 10%
	L2011	VPCEM100MR70N*	Peaking 10µH 20%
	L2012	VP-DF100K0000*	Peaking 10µH 10%
	L2013	VPCEM100MR70N*	Peaking 10µH 20%
	L2014	VP-DF100K0000*	Peaking 10µH 10%
	L2100	VP-DF100K0000*	Peaking 10µH 10%
⚠	T601	RTRNZA050WJZZ	Transformer
⚠	T602	RTRNFA100WJZZ	H-Volt Transformer
⚠	T701	RTRNWA134WJZZ	Transformer

FILTERS

	SF201	RFILCA021WJZZ	Filter
	SF202	RFILC0444CEZZ	Filter

CAPACITORS

	C51	VCEA9M1HW475M+	4.7	50V Electrolytic
	C53	VCEA0A0JW338M	3300	6.3V Electrolytic
	C55	VCEA0A1HW105M+	1	50V Electrolytic
	C201	VCKYCY1HB103K*	0.01	50V Ceramic
	C202	VCKYCY1HB104K*	0.1	50V Ceramic
	C205	VCEA9M1HW106M+	10	50V Electrolytic
	C206	VCEA9M1HW106M+	10	50V Electrolytic
	C207	VCEA9M1CW106M+	10	16V Electrolytic
	C208	VCEA9M1HW225M+	2.2	50V Electrolytic
	C209	VCEA9M1HW225M+	2.2	50V Electrolytic
	C210	VCKYCY1HB104K*	0.1	50V Ceramic
	C211	VCKYCY1HB332K*	3300p	50V Ceramic
	C212	VCKYCY1HB103K*	0.01	50V Ceramic
	C213	VCKYCY1HB103K*	0.01	50V Ceramic
	C214	VCKYCY1HB103K*	0.01	50V Ceramic
	C215	VCKYCY1HB103K*	0.01	50V Ceramic
	C216	VCKYCY1AB105K*	1	10V Ceramic
	C217	VCEA0A1CW107M+	100	16V Electrolytic
	C218	VCKYCY1HB103K*	0.01	50V Ceramic
	C219	VCKYCY1HB103K*	0.01	50V Ceramic
	C222	VCKYCY1HB104K*	0.1	50V Ceramic
	C223	VCKYCY1HB104K*	0.1	50V Ceramic
	C224	VCKYCY1HB103K*	0.01	50V Ceramic
	C301	VCEA9M1HW105M+	47	16V Electrolytic
	C302	VCEA9M1HW105M+	47	16V Electrolytic
	C303	VCKYTV1HF224Z*	0.22	50V Ceramic
	C304	VCKYCY1HB153K*	0.015	50V Ceramic
	C305	VCKYCY1HB153K*	0.015	50V Ceramic
	C306	VCKYCY1HB331K*	330p	50V Ceramic
	C307	VCKYCY1HB153K*	0.015	50V Ceramic
	C308	VCKYCY1HB104K*	0.1	50V Ceramic
	C309	VCKYTV1HF224Z*	0.22	50V Ceramic
	C310	VCKYCY1HB104K*	0.1	50V Ceramic
	C311	VCCCCY1HH470J*	47p	50V Ceramic
	C312	VCKYCY1HB104K*	0.1	50V Ceramic
	C313	VCKYCY1HB153K*	0.015	50V Ceramic
	C314	VCKYCY1HB221K*	220p	50V Ceramic
	C315	VCKYTV1HF224Z*	0.22	50V Ceramic
	C316	VCKYCY1HB104K*	0.1	50V Ceramic
	C317	VCKYTV1HF224Z*	0.22	50V Ceramic
	C318	VCKYCY1HB104K*	0.1	50V Ceramic
	C319	VCKYTV1HF224Z*	0.22	50V Ceramic
	C320	VCKYCY1HB153K*	0.015	50V Ceramic
	C321	VCKYCY1HB221K*	220p	50V Ceramic
	C322	VCKYCY1HB104K*	0.1	50V Ceramic
	C323	VCKYCY1HB104K*	0.1	50V Ceramic
	C324	VCKYTV1HF224Z*	0.22	50V Ceramic
	C325	VCKYCY1HB104K*	0.1	50V Ceramic
	C326	VCKYCY1HB104K*	0.1	50V Ceramic
	C327	VCKYCY1HB104K*	0.1	50V Ceramic
	C328	VCKYCY1HB153K*	0.015	50V Ceramic
	C329	VCKYCY1HB331K*	330p	50V Ceramic
	C330	VCKYCY1HB153K*	0.015	50V Ceramic
	C333	VCFYFA1HA394J+	0.39	50V (ML)
	C336	VCKYTV1HF224Z*	0.22	50V Ceramic
	C337	VCKYCY1AB474K*	0.47	10V Ceramic
	C338	VCKYCY1HB331K*	330p	50V Ceramic
	C340	VCKYCY1AB474K*	0.47	10V Ceramic
	C341	VCKYTV1HF224Z*	0.22	50V Ceramic
	C342	VCKYCY1HB104K*	0.1	50V Ceramic
	C343	VCKYCY1HB104K*	0.1	50V Ceramic
	C344	VCCCCY1HH470J*	47p	50V Ceramic
	C345	VCKYCY1HB104K*	0.1	50V Ceramic
	C346	VCKYCY1HB153K*	0.015	50V Ceramic
	C347	VCKYCY1HB221K*	220p	50V Ceramic
	C348	VCKYTV1HF224Z*	0.22	50V Ceramic
	C349	VCKYCY1HB104K*	0.1	50V Ceramic
	C350	VCKYTV1HF224Z*	0.22	50V Ceramic
	C351	VCKYCY1HB104K*	0.1	50V Ceramic
	C352	VCKYTV1HF224Z*	0.22	50V Ceramic
	C353	VCKYCY1HB153K*	0.015	50V Ceramic
	C354	VCKYCY1HB221K*	220p	50V Ceramic
	C355	VCKYCY1HB104K*	0.1	50V Ceramic
	C356	VCKYCY1HB104K*	0.1	50V Ceramic
	C357	VCKYTV1HF224Z*	0.22	50V Ceramic
	C358	VCKYCY1HB104K*	0.1	50V Ceramic
	C360	VCKYCY1HB331K*	330p	50V Ceramic
	C362	VCFYFA1HA394J+	0.39	50V
	C363	VCFYFA1HA394J+	0.39	50V
	C364	VCKYTV1HF224Z*	0.22	50V Ceramic
	C365	VCKYTV1HF224Z*	0.22	50V Ceramic
	C366	VCKYTV1HF224Z*	0.22	50V Ceramic
	C367	VCKYTV1HF224Z*	0.22	50V Ceramic
	C368	VCKYCY1HB153K*	0.015	50V Ceramic
	C369	VCKYCY1HB153K*	0.015	50V Ceramic
	C370	VCKYCY1HB153K*	0.015	50V Ceramic
	C371	VCKYCY1HB153K*	0.015	50V Ceramic
	C372	VCKYCY1HB221K*	220p	50V Ceramic
	C373	VCKYCY1HB221K*	220p	50V Ceramic
	C374	VCKYCY1HB221K*	220p	50V Ceramic
	C375	VCKYCY1HB221K*	220p	50V Ceramic
	C376	VCFYFA1HA394J+	0.39	50V

10. REPLACEMENT PARTS LIST
PARTS REPLACEMENT

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" in the Replacement Parts Lists.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. **MODEL NUMBER**
2. **REF. NO.**
3. **PART NO.**
4. **DESCRIPTION**
5. **CODE**
6. **QUANTITY**

▲ MARK ★: SPARE PARTS-DELIVERY SECTION

MARK: X-RAY RELATED PARTS

Ref. No.	Part No.	Description

PICTURE TUBE

⚠	V101	VB68LZU185X3E	Picture Tube
⚠		RCILG0056PEZZ	Degaussing Coil
		PMAGG3002CEZZ	Magnet
⚠	K852	QEARC2915PEZZ	Ground-Part

PRINTED WIRING BOARD ASSEMBLIES

(NOT REPLACEMENT ITEM)

PWB-A	DUNTKC516WEC7	MAIN Unit
PWB-B	DUNTKC519WEA6	CRT Unit
PWB-C	DUNTKD090WEA0	FRONT Unit

PWB-A DUNTKC516WEC7 MAIN UNIT

TUNER

NOTE: THE PARTSHERE SHOWN ARE SUPPLIED ASAN ASSEMBLY BUT NOT INDEPENDENTLY.

⚠	TU51	RTUNQA021WJZZ	Tuner

INTEGRATED CIRCUITS

	IC301	VHITDA8922B-1	I.C.
	IC302	VHITDA8922B-1	I.C.
	IC501	VHISTV9380+3E	STV9380A
⚠	IC701	VHISTRX6757-1	STR-X6757LF
⚠	IC702	RH-FXA003WJZZ	PC123Y82
	IC704	VHIM2883E331E*	NJM2883E33
	IC751	VHIBA005T//-1	BA05T
⚠	IC753	VHISE120N//-1	SE120N
	IC946	VHIPCF8563S-1*	PCF8563TS/F4
	IC2031	VHIPST600C/-1+	IC-PST600C-2
	IC2100	RH-IXA830WJZZ*	TDA12021H1/N1D
	IC2101	VHIBR24L32V-1*	BR24L32FV-W
	IC2102	VHIBA00BC0W-1S	BA00BC0WT-V5
	IC2104	VHIBA00BC0W-1S	BA00BC0WT-V5

Ref. No.	Part No.	Description

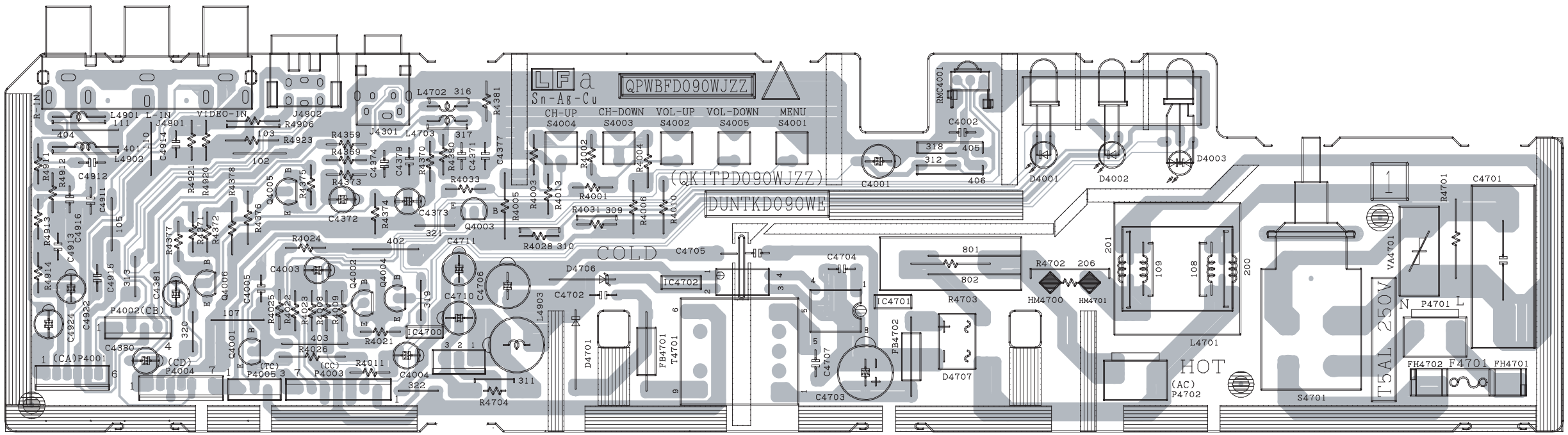
TRANSISTORS

	Q200	VS2SC2735//1E*	2SC2735
	Q202	VS2PD601AR/-1*	2PD601AR
	Q203	VS2PD601AR/-1*	2PD601AR
	Q301	VS2PD601AR/-1*	2PD601AR
	Q390	VSIMX1C/C//-1*	IMX1C
	Q391	VSIMZ1A////-1*	IMZ1A
	Q602	VS2SK2161++-1	2SK2161
	Q603	VS2SC3198-Y-1+	2SC3198-Y
⚠	Q604	VS2SD2646++1E	2SD2646
	Q605	VS2PB709AR/-1*	2PB709AR
	Q606	VS2SC2482//-1+	2SC2482
	Q607	VSKRC103S//-1*	KRC103S
	Q609	VS2SC3198-Y-1+	2SC3198-Y
	Q754	VS2PC1815Y+-1+	2PC1815Y
	Q755	VS2SC3198-G-1+	2SC3198-G
	Q903	VSIMX1C/C//-1*	IMX1C
	Q904	VS2PB709AR/-1*	2PB709AR
	Q906	VSIMZ1A////-1*	IMZ1A
	Q907	VSKRC105S//-1*	KRC105S
	Q2002	VS2PD601AR/-1*	2PD601AR
	Q2003	VS2PD601AR/-1*	2PD601AR

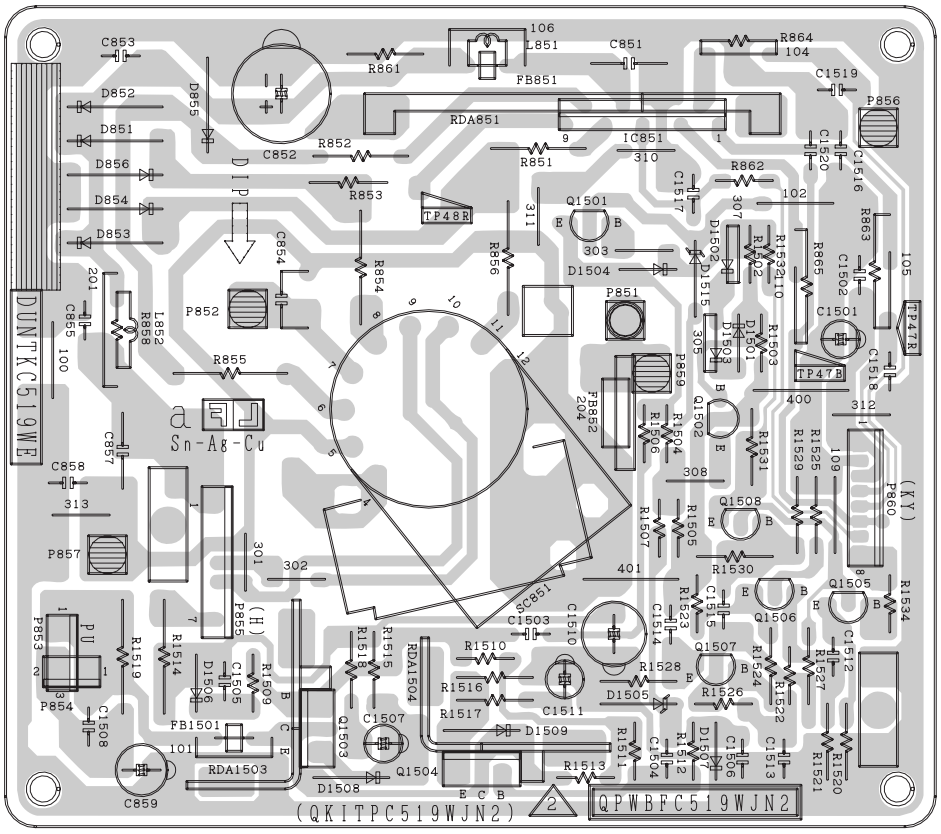
DIODES

	D52	RH-EX0677GEZZ*	Zener Diode, 32V
	D200	VHD1SS390++-1*	1SS133
	D201	VHD1SS390++-1*	1SS133
	D202	VHD1SS133++-1*	1SS133
	D203	RH-EX0627GEZZ*	Zener Diode, 8.2V
	D390	VHD1SS133++-1*	1SS133
	D391	VHD1SS133++-1*	1SS133
	D392	VHD1SS133++-1*	1SS133
	D520	RH-EX0609GEZZ*	Zener Diode, 4.8V
	D521	VHD1SS133++-1*	1SS133
	D522	RH-EX0609GEZZ*	Zener Diode, 4.8V
	D601	VHD1SS244//-1*	1SS244
⚠	D602	VHD1SS133++-1*	1SS133
	D603	RH-DX0131CEZZ*	DX0131CE
⚠	D604	RH-EX0641GEZZ*	Zener Diode, 12V
	D605	RH-DX0302CEZZ*	DX0302CE
⚠	D606	VHD1SS133++-1*	1SS133
▲⚠	D607	RH-DX0255CEZZ	DX0255CE
▲⚠	D608	RH-DXA006WJZZ	DXA006WJ
⚠	D609	VHD1SS133++-1*	1SS133
	D610	RH-EX0611GEZZ*	Zener Diode, 5.1V
	D611	RH-DX0471CEZZ*	DX0471CE
	D613	VHD1SS133++-1*	1SS133
	D614	VHD1SS133++-1*	1SS133
	D616	RH-DX0321CEZZ*	DX0321CE
	D617	RH-EX0603GEZZ*	Zener Diode, 3.9V
	D701	RH-DX0131CEZZ*	DX0131CE
	D702	RH-DX0131CEZZ*	DX0131CE
	D703	RH-EX0656GEZZ*	Zener Diode, 20V
⚠	D704	RH-DX0477CEZZ	DX0477CE
	D708	RH-DX0131CEZZ*	DX0131CE
	D709	RH-EX0618GEZZ*	Zener Diode, 6.2V
	D712	RH-DX0066GEZZ*	DX0066GE
	D713	RH-DX0321CEZZ*	DX0321CE
	D751	RH-DXA006WJZZ	DXA006WJ
	D752	VHD1SS133++-1*	1SS133
	D753	RH-DX0407CEZZ*	DX0407CE
	D754	RH-DX0475CEZZ*	DX0475CE
	D755	RH-DX0410CEZZ	DX0410CE
	D758	RH-DX0410CEZZ	DX0410CE
	D760	VHD1SS133++-1*	1SS133
	D761	VHD1SS133++-1*	1SS133
	D762	RH-DX0302CEZZ*	DX0302CE
	D763	VHD1SS133++-1*	1SS133
	D764	RH-EX0655GEZZ*	Zener Diode
	D765	RH-DX0302CEZZ*	DX0302CE
	D901	RH-DX0475CEZZ*	DX0475CE
	D903	RH-DX0279CEZZ*	DX0279CE
	D2101	VHD1SS133++-1*	1SS133

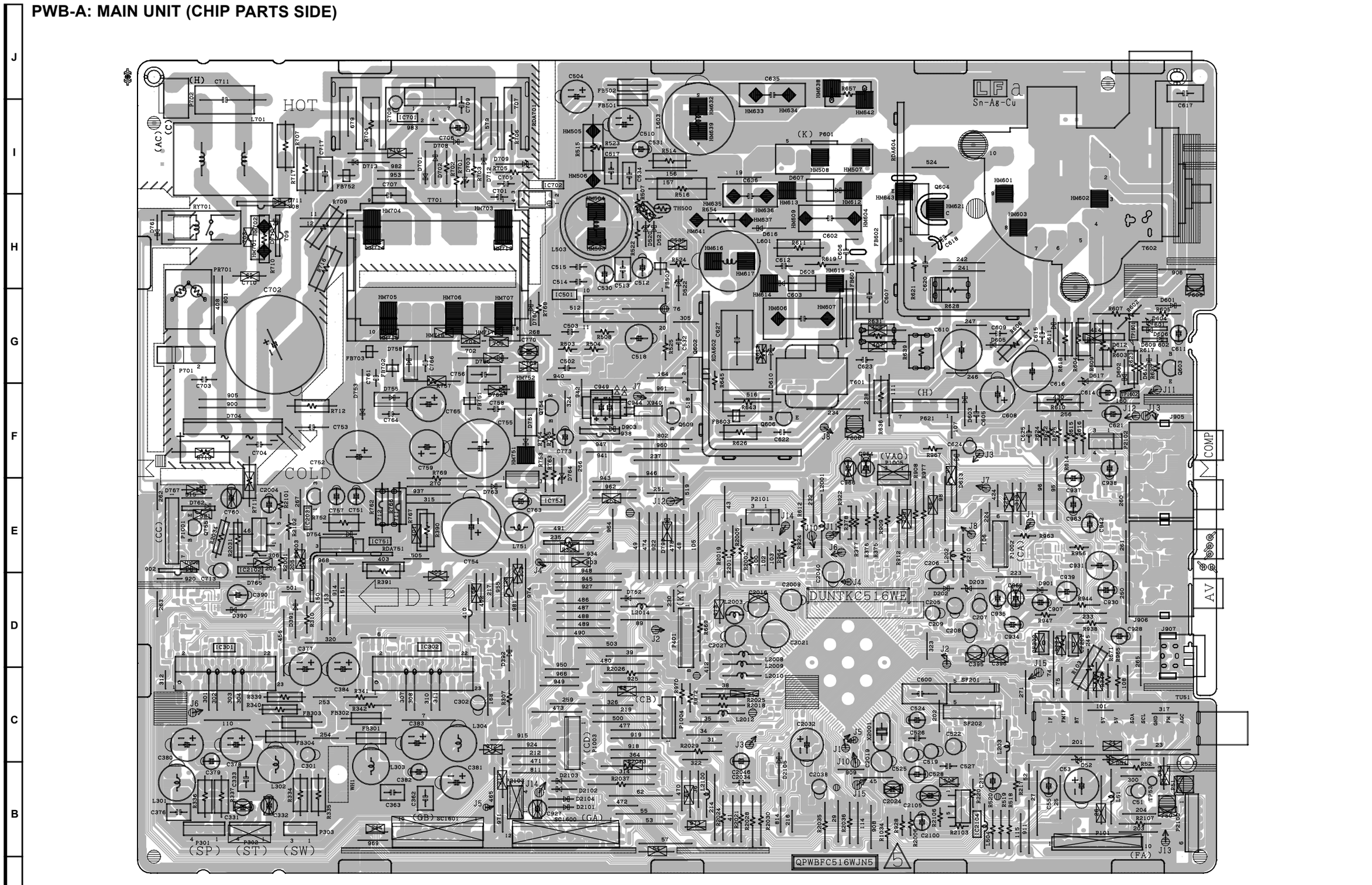
PWB-C: FRONT UNIT



PWB-B: CRT UNIT (COMPONENT SIDE)



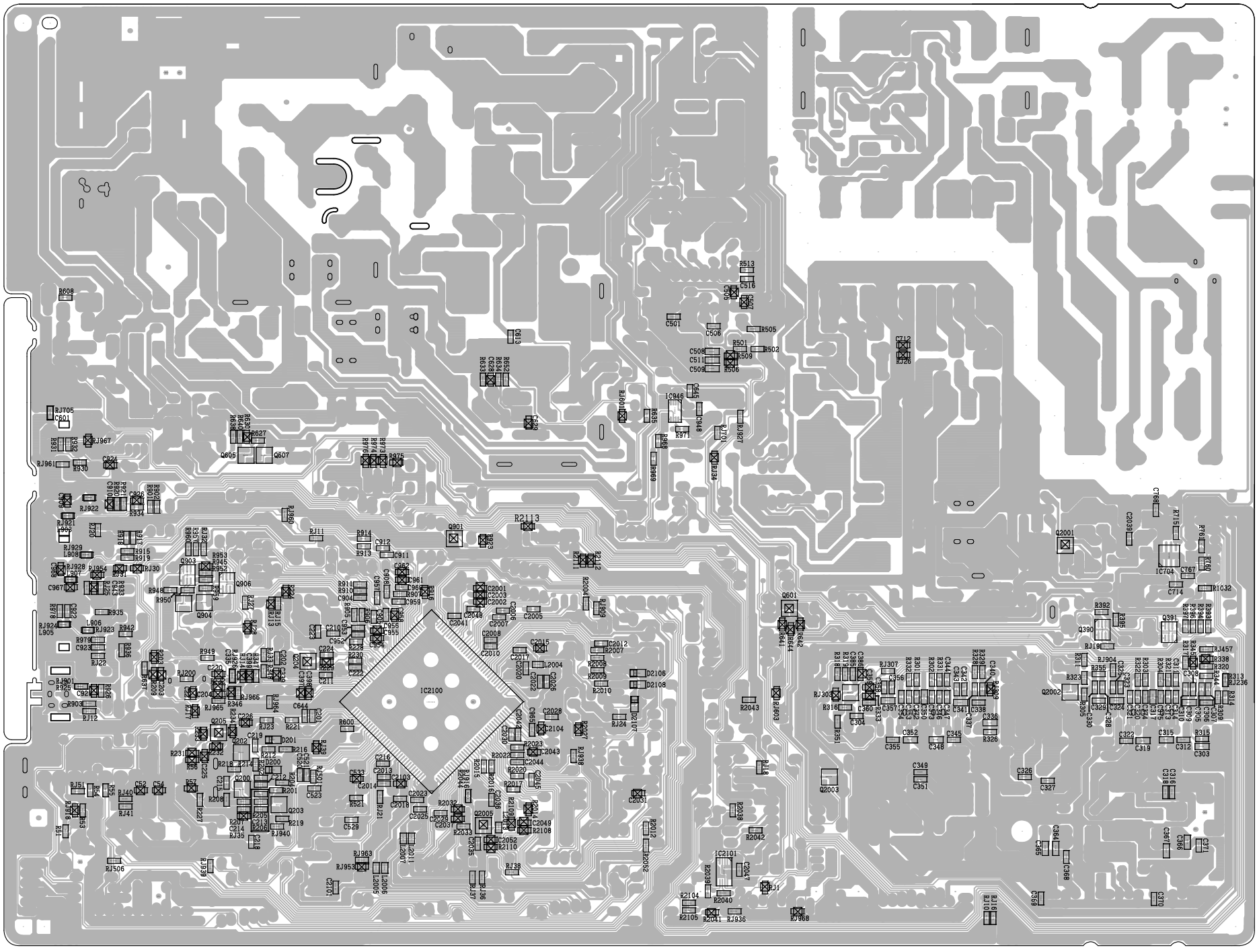
PWB-A: MAIN UNIT (CHIP PARTS SIDE)



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

PRINTED WIRING BOARD ASSEMBLIES

PWB-A: MAIN UNIT (COMPONENT SIDE)



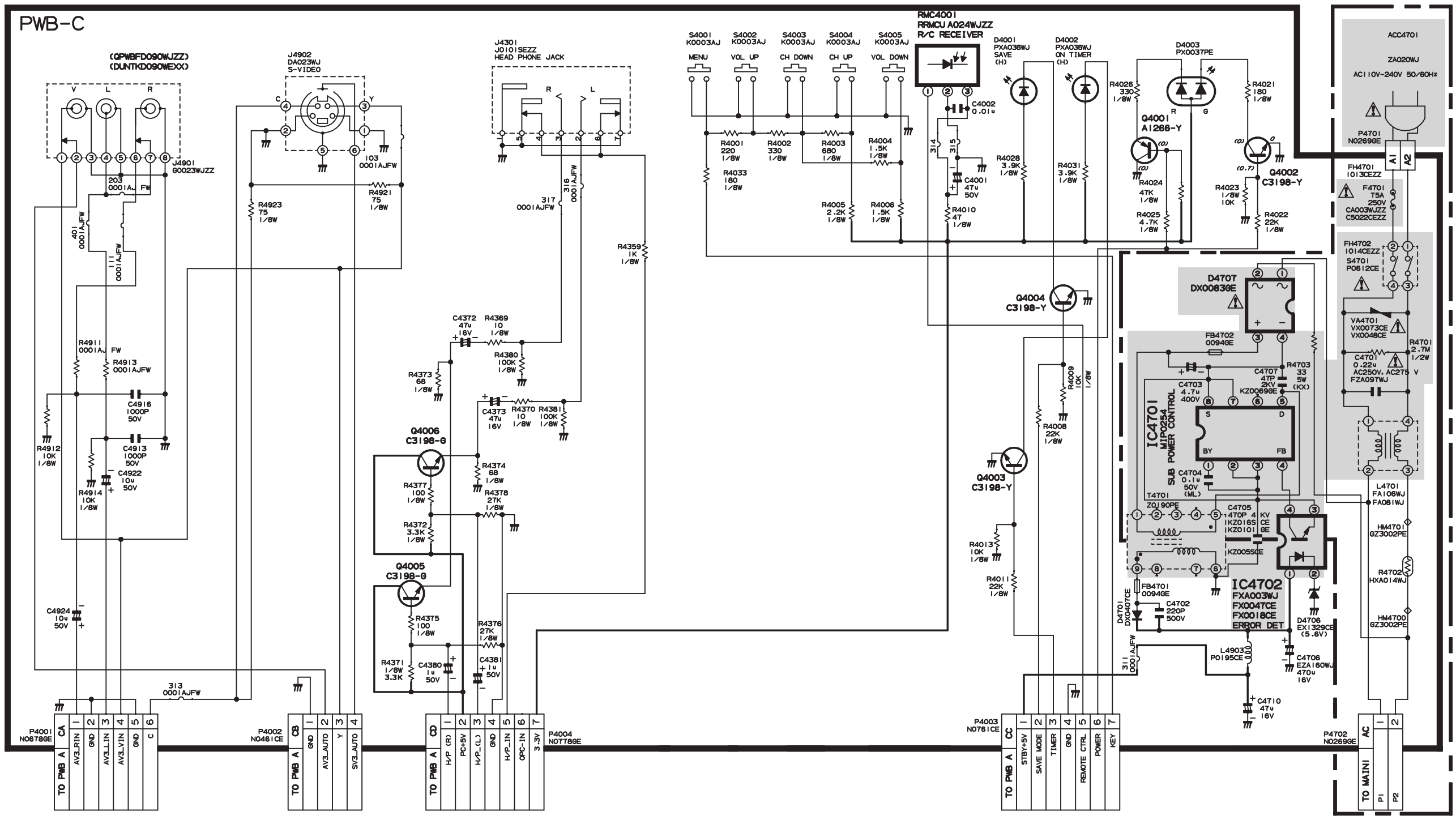
J I H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

31 32

FRONT UNIT

FRONT GB4



DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTES:

1. *DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.*
2. *SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.*

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (▬ ▬ ▬) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.
WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

NOTES:

1. *The unit of resistance "ohm" is omitted. (K = 1000 ohms, M = Meg ohm).*
2. *All resistors are 1/16 watt, unless otherwise noted.*
3. *All capacitors are μF, unless otherwise noted. (P = μμF).*

VOLTAGE MEASUREMENT CONDITIONS:

1. *Voltage in parenthesis measured with no Signal.*
2. *Voltages without parenthesis measured with PAL Colour-Signal.*
3. *All the voltages in each point are measured high impedance volt-meter.*

WAVEFORM MEASUREMENT CONDITIONS:

1. *RF colour bar signal of 2.0V peak to peak applied at RF Tuner TU51.*
2. *Approximately 4.0 V AGC bias (without signal).*

BLOCK DIAGRAMS